

AMENDMENTS TO CLAIMS

Please amend the claims as indicated on the listing that follows, which supersedes and replaces all prior listings of claims:

1. (Currently Amended) A control device for a control system, ~~the improvement wherein the~~  
control device comprising

a processor that ~~the field device provides a virtual machine environment and executes~~  
~~byte code therein, the byte code configuring the field device to execute~~ a control  
algorithm that at least one of (i) maintains the control system at a desired level, and (ii)  
drives it to that level as a function of one or more measured values and one or more  
setpoints,

a web server that facilitates any of configuration, monitoring and maintenance of the  
control system or one or more other control devices,

the control device further comprising any of (i) a sensor for sensing any of a temperature,  
level or other characteristic of a process controlled by the control system, and (ii) an  
actuator for the process controlled by the control system.

Claims 1 – 228 are cancelled.

229. (New) The control device of claim 1, wherein

the control device comprises an interface to an IP network, and

on startup, the control device registers a characteristic thereof with at least one other  
device on the IP network.

230. (New) The control device of claim 229, wherein the control device issues to the IP network,  
via the interface, a request for assignment of an IP address.

231. (New) The control device of claim 229, wherein the control device receives a device  
identification name from any of (i) a user-configured hub or other device to which the

control device is coupled, (ii) a letterbug installed in the control device, (iii) a digital data processing apparatus, (iv) a software generated letterbug.

232. (New) The control device of claim 229, wherein the control device registers the characteristic with a bulletin board on the IP network.
233. (New) The control device of claim 232, wherein the control device registers the characteristic with in a Javaspace on the IP network.
234. (New) The control device of claim 229, wherein the control device communicates with another device over the IP network in order to obtain configuration information.
235. (New) The control device of claim 229, wherein the control device retains configuration information for use at startup.
236. (New) The control device of claim 229, wherein the web server any of (i) collects process data from one or more control devices, (ii) generates sources for operator displays, (iii) provides access to the control system, and (iv) hosts an applications development environment.
237. (New) The control device of claim 236, wherein the control device comprises a configuration editor.
238. (New) The control device of claim 229, wherein the control device is any of a control station, operator console, personal computer, handheld computer, workstation, integrator, or controller.
239. (New) A control system comprising a plurality of control devices coupled via one or more IP networks, wherein one or more selected control devices
- A. execute a control algorithm that at least one of (i) maintains the control system at a desired level, and (ii) drives it to that level as a function of one or more measured values and one or more setpoints,

- B. comprises a web server that facilitates any of configuration, monitoring and maintenance of the control system or one or more other control devices, and
- C. wherein at least one of the selected control devices comprises any of (i) a sensor for sensing any of a temperature, level or other characteristic of a process controlled by the control system, and (ii) an actuator.

240. (New) The control system according to claim 239, wherein a said IP network is powered.

241. (New) The control system of claim 240, wherein one or more of the control devices receive operational power from said IP network that is powered.

242. (New) The control system comprising of claim 239, comprising a DHCP server that furnishes IP addresses in response to requests by one or more of the control devices.

243. (New) The control system of claim 242, wherein the DHCP server is solid state.

244. (New) The control system of claim 243, wherein the DHCP server is free of moving parts and comprises zero, one or more removable components.

245. (New) The control system of claim 239 comprising

a network enabler that is coupled to the IP network that responds to requests by the control devices to at least one of (i) register names specified by the control devices, (ii) search for names specified by the control devices, (iii) posting to a network bulletin board events specified by the control devices, (v) removing from the network bulletin board events specified by the control devices, (vi) querying the network bulletin board for events specified by the control devices, (vii) notifying the control devices of events specified by the control devices.

246. (New) The control system of claim 245, wherein the network enabler is any of a JINI and a JavaSpace server.